

**IN THE UNITED STATES DESIGNATED/ELECTED OFFICE**

International Application No. : PCT/JP05/05406  
U.S. Application Serial No. : 10/594,126  
International Filing Date : March 24, 2005  
Priority Date(s) Claimed : March 26, 2004  
Applicant(s) (DO/EO/US) : Akira FUNAKI et al  
Title: METHOD FOR PRODUCING TRANSPARENT POLYPROPYLENE BASED  
SHEET AND TRANSPARENT POLYPROPYLENE BASED SHEET

**SUBMISSION OF ENGLISH TRANSLATION OF  
INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

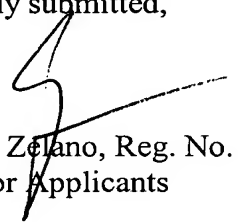
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

SIR:

This is a second submission of items concerning a submission under 35 U.S.C. 371 for the above-identified application. Attached please find an English language translation of the International Preliminary Examination Report under PCT Chapter I.

The Commissioner is hereby authorized to charge any fees associated with this response or credit any overpayment to Deposit Account No. 13-3402.

Respectfully submitted,

  
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Date: May 21, 2007  
AJZ:hlw

# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44*bis*)

Applicant's or agent's file reference ID-188	<b>FOR FURTHER ACTION</b>	See item 4 below
International application No. PCT/JP2005/005406	International filing date ( <i>day/month/year</i> ) 24 March 2005 (24.03.2005)	Priority date ( <i>day/month/year</i> ) 26 March 2004 (26.03.2004)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant IDEMITSU UNITECH CO., LTD.		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- |                                     |              |   |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I    | Basis of the report   |
| <input type="checkbox"/>            | Box No. II   | Priority  |
| <input type="checkbox"/>            | Box No. III  | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  |
| <input type="checkbox"/>            | Box No. IV   | Lack of unity of invention  |
| <input checked="" type="checkbox"/> | Box No. V    | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/>            | Box No. VI   | Certain documents cited   |
| <input type="checkbox"/>            | Box No. VII  | Certain defects in the international application  |
| <input type="checkbox"/>            | Box No. VIII | Certain observations on the international application   |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44*bis*.3(c) and 93*bis*.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44*bis* .2).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland  Facsimile No. +41 22 338 82 70	Date of issuance of this report 19 October 2006 (19.10.2006)  Authorized officer  <div style="text-align: center; font-weight: bold;">Yoshiko Kuwahara</div>  e-mail: pt07@wipo.int
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# PATENT COOPERATION TREATY

TRANSLATION

From the  
INTERNATIONAL SEARCHING AUTHORITY

## PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing  
(day/month/year)

Applicant's or agent's file reference

**ID-188**

**FOR FURTHER ACTION**

See paragraph 2 below

International application No.

**PCT/JP2005/005406**

International filing date (day/month/year)

**24.03.2005**

Priority date (day/month/year)

**26.03.2004**

International Patent Classification (IPC) or both national classification and IPC

Applicant

**IDEMITSU UNITECH CO., LTD.**

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/005406

Box No. I

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  
☐ This opinion has been established on the basis of a translation from the original language into the following language  
\_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material  
☐ a sequence listing  
☐ table(s) related to the sequence listing
  - b. format of material  
☐ in written format  
☐ in computer readable form
  - c. time of filing/furnishing  
☐ contained in the international application as filed.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/005406

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	<u>1-6</u>	YES
	Claims	_____	NO
Inventive step (IS)	Claims	_____	YES
	Claims	<u>1-6</u>	NO
Industrial applicability (IA)	Claims	<u>1-6</u>	YES
	Claims	_____	NO
2. Citations and explanations:			
Document 1: JP 2003-170485 A (Idemitsu Unitech Co., Ltd.)			
Document 2: JP 11-156921 A (Idemitsu Petrochemical Co., Ltd.)			
(Claims 1-6)			
<p>The inventions of claims 1-6 do not appear to involve an inventive step based on documents 1 and 2 cited in the ISR.</p> <p>“Polypropylene resins having an isotactic pentad fraction of 0.85-0.99 and a melt flow rate (MFR) of 0.1-30g/10 min” and “metallocene-type ethylene-<math>\alpha</math>-olefin copolymers produced using a metallocene catalyst and having a density of 880-920kg/m<sup>3</sup> and a melt flow rate (MFR) of 1-30g/10 min” are commonly known (refer to document 1 for the former).</p> <p>In addition, document 2 (paragraph 0016) describes a composition of “a polypropylene resin” and “a metallocene-type ethylene-<math>\alpha</math>-olefin copolymer”.</p> <p>The inventions described in documents 1 and 2 relate to transparent resin sheets made from polypropylene resins and deal with an identical issue, being improving their mechanical properties without reducing their transparency (document 1: paragraph 0002, document 2: paragraph. 0005).</p> <p>Therefore, appropriately combining the technical concepts disclosed in documents 1 and 2, and optimizing the melt flow rate, density and component ratios of a resin composition of “a polypropylene resin” and “a metallocene-type ethylene-<math>\alpha</math>-olefin copolymer” in accordance with the intended use so as to produce the inventions of claims 1-6 is within the scope of the realization of routine creative abilities for a party skilled in the art.</p>			